

Inch # 642-545
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New Magnetic Properties of Macromolecular Compounds Containing Conjugated Double Bonds, by L. A. Blyumenfeld, A. A. Berlin, A. A. Slinkin, 5 pp.

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Polymer With a Conjugated Bond System and Heteroatoms
in the Conjugation Chain, by A. A. Berlin, 23 pp.

RUSSIAN; bk, Mezhdunarodnyi Simpozium po
Makromolekulyarnoi Khimii SSSR, 14-18 Jun 1960,
pp 139-159. 9093611

AEC Tr-4470

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The main lines of Research on the Chemical Reactions
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CHAIN. [1961] [44]p. 42 refs.
Order from OTS or SLA \$4.60

61-16598

Trans. of Khimiya i Tekhnologiya Polimerov (USSR)
1960 [v. 4] no. 7/8, p. 139-157.

DESCRIPTORS: *Polymers, Synthesis, Physical
properties, *Vinyl radicals, *Acetylenes, Polymeri-
zation.

A survey of Soviet and non-Soviet literature

(Chemistry--Organic, TT, v. 6, no. 10)

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I. Berlin, A. A.

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(NY-5504)

Synthesis and Properties of Polymers With Systems of
Conjugated Bonds, by A.A. Berlin.

RUSSIAN, per, Khimicheskaya Promishlennost', No 5,
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JPRS 7475

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SYNTHESIS AND PROPERTIES OF POLYMERS WITH
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Order from ATS \$21.90 ATS-70N49R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 6, p. 444-452.

DESCRIPTORS: Polymers, Chemical bonds,
Synthesis, Properties.

- I. Berlin, A. A.
- II. ATS-70N49R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

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(Chemistry--Organic, TT, v. 6, no. 7)

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Berlin, A. A. and Matveyeva, N. G.
POLYMERS WITH CONJUGATED BONDS IN THE
MACROMOLECULAR CHAINS. III. POLYAMINO-
QUINONES (Polimery s Sopryazhennymi Svyazami v
Tsepyakh Makromolekul. III. O. Polyaminokhinonukh).
Feb 61 [6]p. 2 refs. RTS 1705.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15744

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 11, p. 1643-1646.
Another translation is available from ATS \$7.50 as
ATS-83M40R [1960] 4p.

Polyaminoquinones were synthesized by the interaction
of chloranil with benzidine or hexamethylenediamine.
Polymerhomologous conversions are possible because
of the mobile halogen atoms in the quinone residues.
When reacted with metal salts, polyaminoquinones
form polymeric complexes, of apparently chelate
structure. The EPR spectra and the magnetic sus-
ceptibility of aromatic polyaminoquinones and their
(Chemistry--Organic, TT, v. 5, no. 8) (over)

- I. Quinones--Polymerization
- I. Berlin, A. A.
- II. Matveyeva, N. G.
- III. RTS-1705
- IV. Title: Polyaminoquinones
- V. Department of Scientific
and Industrial Research
(Gt. Brit.)

Office of Technical Services

Berlin, A. A. [Tcherkashin, M. I.] and others.
POLYMERS WITH CONJUGATED BONDS IN THE
MACROMOLECULAR CHAIN. V. SYNTHESIS AND
SOME PROPERTIES OF POLYARYLVINYLENES.

17 Mar 60, [9]p. 2 refs.

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Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1 [no. 12] p. 1817-1820.

Phenylacetylene and p-diethynylbenzene are capable of
polymerization and copolymerization on heating at 150
to 400°C or at 70°C in the presence of complexes of an
aluminum trialkyl and $TiCl_4$ or $TiCl_3$. On increasing
the polymerization temperature of phenylacetylene from
150 to 300°C, there is an increase in yield, molecular
weight and viscosity of polyphenylvinylene; at the same
time the polymer color changes from yellow to brown
(300°C) and black (400°C). Polymers of phenylacetylene
and p-diethynylbenzene and their copolymers have nar-
row EPR signals, a large concentration of paramagnetic
particles (10^{17} to 10^{19} particles/g) and a high value of
(Chemistr. --Organic, IT, v. 5, no. 3) (over)

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1. Acetylenes--Polymerization
2. Title: Vinylenes
3. Title: Conjugated Bonds
- I. Berlin, A. A.
- II. Tcherkashin, M. I.
- III. Title: Synthesis...

Classification: Organic Chemistry

~~CONFIDENTIAL~~ Preparation of Aromatic Polymers Via
Diazazo Compounds, by A. A. Berlin, V. P. Parini, 3

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9,
1959, pp 1674-1676.

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Investigation of Certain Epoxy Stabilizers for
Polyvinyl Chloride, by A. A. Berlin, E. N.
Zil'berman, N. A. Rybakova, A. M. Sharotskiy,
D. M. Yanovskiy, 5 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXXII, No 4,
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Yanovskiy, A. A. Berlin, E. N. Zil'berman,
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Investigations of Polymerization and Properties of
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CIA 643674

ATTC F-TB-9685/1

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Order from ATS \$19.95 ATS-95N48R

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DESCRIPTORS: *Polymers, Synthesis, Electrical
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(Chemistry--Physical, TT, v. 6, no. 2)

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by A. A. Berlin, G. L. Popova, E. P. Isayeva,
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RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIII, No 6,
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A. A. Berlin, G. L. Popova, E. F. Isayeva, 7 pp.

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The Synthesis and Basic Properties of
Polyacrylate Esters of Different Degrees
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Cellulose, by A. A. Berlin and T. A. Makarova, 8 pp.

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Effect of Certain Metal Oxides on the Stability of
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THE SYSTEMATISM OF HIGH-MOLECULAR COM-
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DESCRIPTORS: *Polymers, Classification, Inorganic
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(Chemistry, TT, v. 9, no. 11)

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JPRS 9240

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CB 166, 2 3 2

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Scientific - Chemistry

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Derivatives of Zingerone-II, by A. Ya. Berlin, ~~P. M.~~
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Shkodinskaya, O. S. Vasina, A. Ya. Berlin, L. P.
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 α -Amino Acids, by A. Ya. Barlin, V. K. Antonov, .
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